PATENT COOPERATION TREATY

PCT Rec'd PCT/PTO 26 SEP 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

10/553465

Applicant's or agent's file reference 04-PCT-6050	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/KR2004/001129	International filing date (day/month/year) 13 May 2004 (13.05.2004)	Priority date (day/month/year) 13 May 2003 (13.05.2003)]	
International Patent Classification (IPC 7 B62M 11/00	C) or national classification and IPC		
Applicant HONG, Jae ho			
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1.	This international preliminary re International Searching Authorit		er I) is issued by the International Bureau on behalf of the
2.	This REPORT consists of a total	of 4 sheets, including this c	over sheet.
	In the attached sheets, any refere to the international preliminary i		the International Searching Authority should be read as a reference ter I) instead.
3.	This report contains indications	relating to the following iten	is:
	Box No. I	Basis of the report	
	Вох №. П	Priority	
	Box No. III	Non-establishment of opi applicability	nion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	ı
	Box No. V		r Article 35(2) with regard to novelty, inventive step or industrial d explanations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the inte	rnational application
	Box No. VIII	Certain observations on the	ne international application
4.			ignated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but ler Article 23(2), before the expiration of 30 months from the priority
			Date of issuance of this report 18 November 2005 (18.11.2005)
	The International Bure 34, chemin des Col 1211 Geneva 20, Sv	ombettes	Authorized officer Philippe Becamel
	nile No. +41 22 740 14 35		Telephone No. +41 22 338 70 90

Form PCT/IB/373 (January 2004)

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CHO, Sang Kyun			PCT	WIPO PCT
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04-PCT-6050 International application No.	International filing date			lay/month/year)
PCT/KR2004/001129	13 MAY 2004 (13.		13 MAY 2003	
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HONG, Jae ho				
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This opinion contains indications related to the second seco	_			
Box No. II Priority				
1 ≓	nent of opinion with regar	rd to novelty, inventive s	step and industri	al applicability
Box No. IV Lack of unity	of invention			·
	ment under Rule 43bis.1(planations supporting suc		elty, inventive st	ep or industrial applicability;
Box No. VI Certain docum	ents cited			
Box No. VII Certain defect	ts in the international appl	lication		
Box No. VIII Certain observe	ations on the international	l application		
2. FURTHER ACTION If a demand for international preliming International Preliminary Examining other than this one to be the IPEA and opinions of this International Searchi If this opinion is, as provided above, IPEA a written reply together, where of Form PCT/ISA/220 or before the effort further options, see Form PCT/ISA. 3. For further details, see notes to Form.	Authority ("IPEA") except the chosen IPEA has not not authority will not be successful to be a written appropriate, with amenda expiration of 22 months from 5A/220.	pt that this does not applotified the International Is so considered. In opinion of the IPEA, the ments, before the expiral	ly where the app Bureau under Ru ne applicant is in tion of 3 months	licant chooses an Authority le 66.1bis(b) that written wited to submit to the from the date of mailing

Name and mailing address of the ISA/KR

(3)

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Authorized officer

JANG, GI JEONG

Telephone No. 82-42-481-8141



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001129

Box No. I Basis of this opinion	
2 2000 Of this Opinion	
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1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.	
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	
	T
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:	
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
in wirtten format	
in computer readable form	
an ostipately readable form	
c. time of filing/furnishing	
contained in the international application as filed.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the inference of the sequence listing and/or table relating thereto has been	
and required statements triat the information in the subsequent on additional	
in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
Additional comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2004/001129

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Nameter OD		1.0	
Novelty (N)	Claims	1-2	YES
	Claims	None	NO
Inventive step (IS)	Claims	1-2	YES
	Claims	None	
Industrial applicability (IA)	Claims	1-2	NO YES
	Claims	None	
			NO

2. Citations and explanations:

The present invention relates to a bicycle drive unit capable of forward movement and zero rotation and backward movement when forward or backward pedaling.

Reference is made to the following document:

D: US 4,571,219 (BREDEN et al.) 18 February 1986

(1) Novelty (N)

Claim 1 of the present application relates to a bicycle drive unit of multi pedaling type comprising a regular direction clutch (C1), a reverse direction clutch (C2), a backward control section, etc. The regular direction clutch (C1), the reverse direction clutch (C2), the backward control section of the bicycle drive unit of the present application are not disclosed in D. Therefore, the subject matter of claim 1 is considered to be novel under PCT Article 33(2). Claim 2 is dependent on claim 1, and consequently the subject matter of claim 2 is also considered to be novel.

(2) Inventive Step (IS)

The regular direction clutch (C1), the reverse direction clutch (C2), the backward control section of the bicycle drive unit in claim 1 are not disclosed in D. In addition, said technical features of the bicycle drive unit cannot be readily invented by a skilled person in the art. Therefore, claim 1 meets the requirement of PCT Article 33(3) with respect to inventive step. Claim 2 is dependent on claim 1, and consequently the subject matter of claim 2 is also considered to involve an inventive step.

(3) Industrial Applicability (IA)

The present invention is used for a bicycle. Therefore, claims 1-2 meet the criteria of PCT Article 33(4).